

PART B - FEE(S) TRANSMITTAL

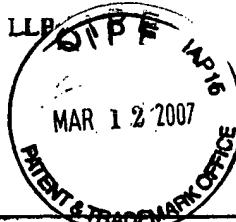
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55389 7590 12/12/2006

KNOBBE, MARTENS, OLSON & BEAR, LLP
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| |
|--------------------|
| (Depositor's name) |
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| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/719,370 | 11/21/2003 | Donna T. Ward | PTS-0070US.PI | 3593 |

TITLE OF INVENTION: MODULATION OF HIFI ALPHA AND HIP2ALPHA EXPRESSION

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|-----------------|--------------|-----------------|-----------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1400 | \$300 | \$0 | \$1700 | 03/12/2007 |
| EXAMINER | | ART UNIT | CLASS-SUBCLASS | | | |
| ZARA, JANE J | | 1635 | 435-458000 | | | |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Isis Pharmaceuticals, Inc.

Patent Department

2 Knobbe, Martens, Olson

and Bear, LLP

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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

ISIS PHARMACEUTICALS, INC.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Carlsbad, CA

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

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 Publication Fee (No small entity discount permitted)
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 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 11-1410 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(b)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Date March 12, 2007

Typed or printed name Jerry L. Hefner

Registration No. 53,009

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